### SIMBIOS Project Operational Data Merging

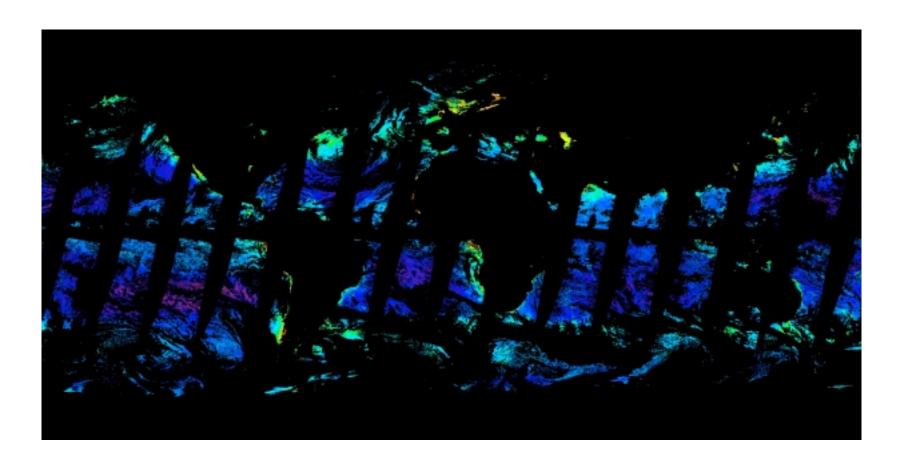
Weighted Averaging of Derived Products at Level-3

Bryan Franz OCRT April 14-17, 2003

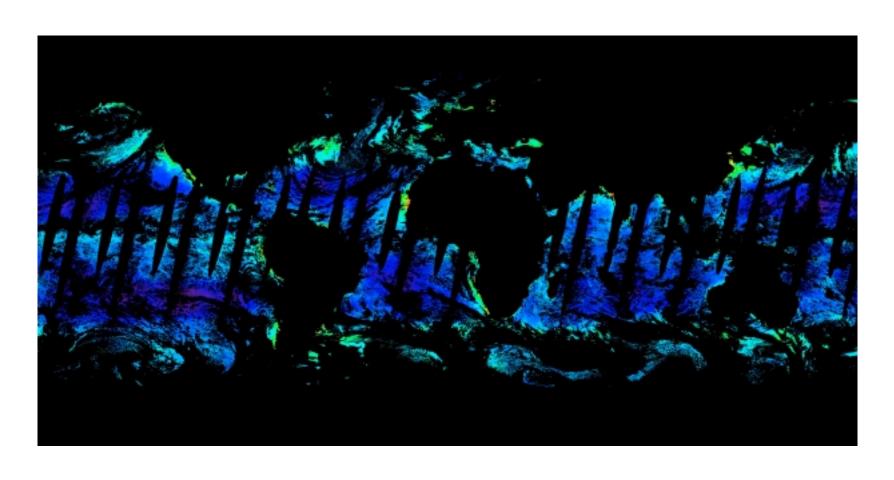
### Concept and Implementation

- Daily Level-3 products simply averaged together.
- Using SeaWiFS standard Level-3 binning software: arithmetic mean weighted by sqrt(n), 9-km equal area bins.
- MODIS 4.6-km bins first reduced (rebinned) to 9-km resolution.
- Currently merging MODIS chlor\_a\_2 product (OC3M) with SeaWiFS chlor\_a product (OC4).
- Operational since MODIS/Terra collection #4 reprocessing.
- Distribution via http://seawifs.gsfc.nasa.gov/cgi/level3.pl

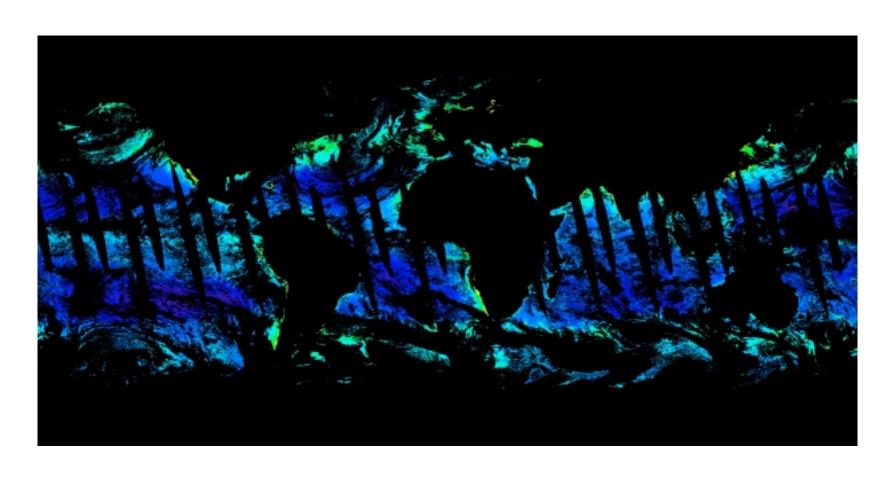
# SeaWiFS Daily Average Chlorophyll 2003 089



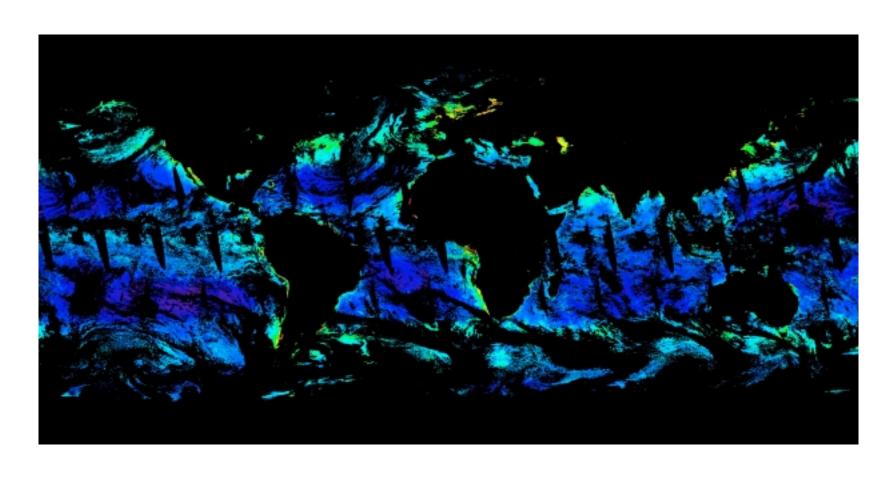
## MODIS Terra Daily Average Chlorophyll 2003 089



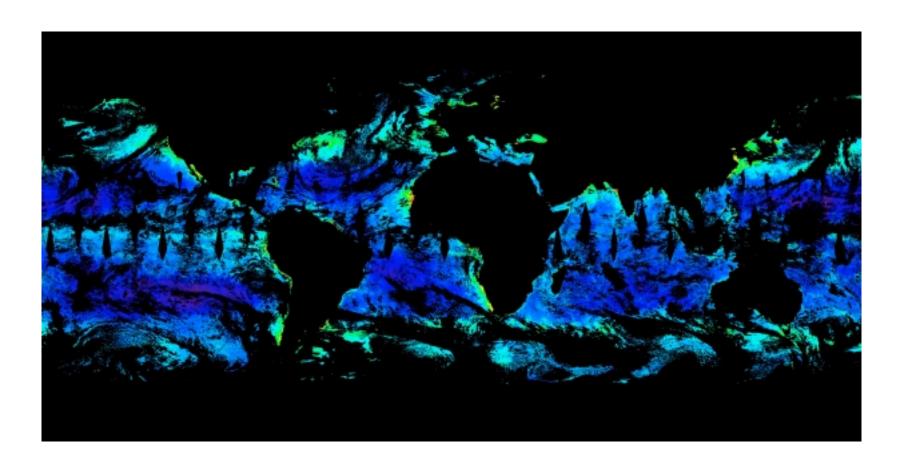
## MODIS Aqua Daily Average Chlorophyll 2003 089



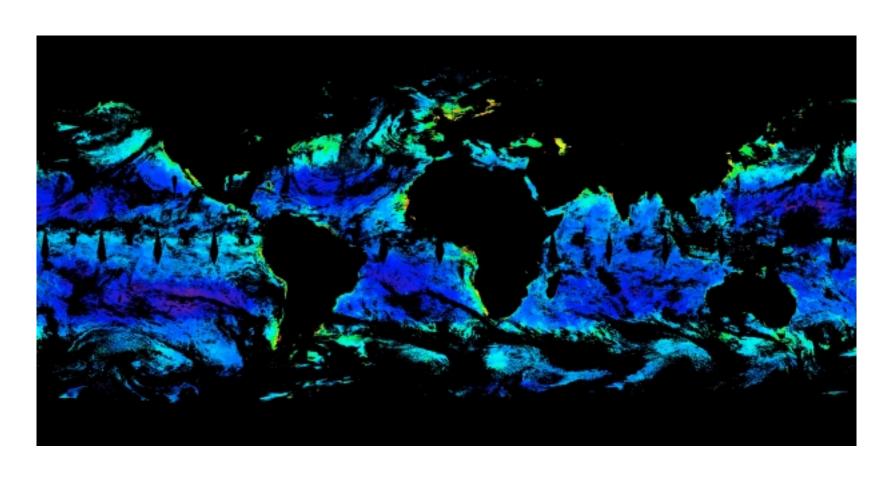
#### MODIS Aqua & SeaWiFS Daily Average Chlorophyll 2003 089



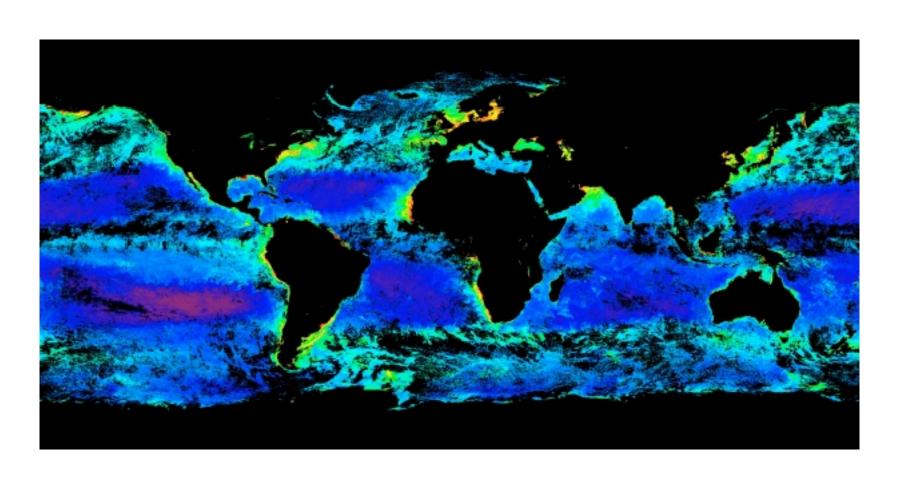
### MODIS Aqua & Terra Daily Average Chlorophyll 2003 089



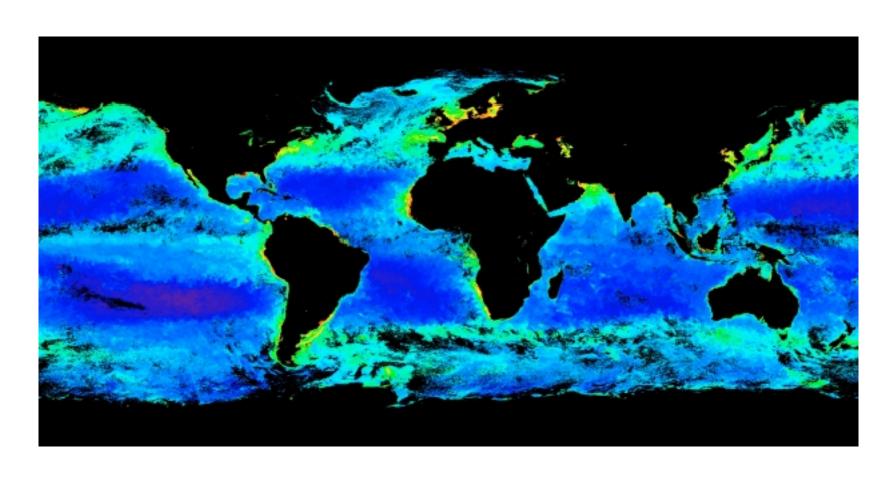
### MODIS Terra/Aqua/SeaWiFS Daily Average Chlorophyll 2003 089



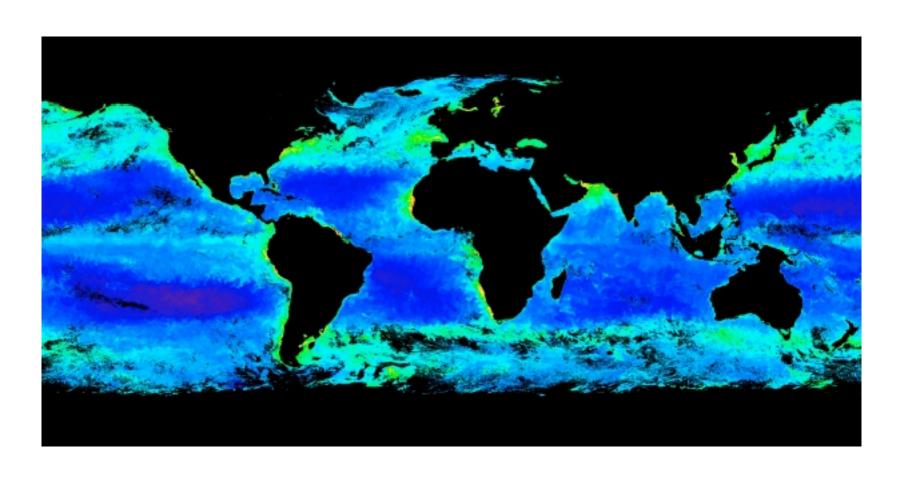
#### SeaWiFS 8-Day Averaged Chlorophyll 2003 081-2003 088



#### MODIS Aqua & SeaWiFS 8-Day Averaged Chlorophyll 2003 081 - 2003 088



#### MODIS Aqua & Terra 8-Day Averaged Chlorophyll 2003 081 - 2003 088



#### Terra/Aqua/SeaWiFS 8-day Averaged Chlorophyll 2003 081 - 2003 088

